

PROJECT DESCRIPTION

I. GENERAL:

THIS PORTION OF THE PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC SIGNAL AT THE INTERSECTION OF MD 147 AND LINWOOD AVENUE IN BALTIMORE COUNTY. THE MODIFICATION INCLUDES INSTALLATION OF VIDEO DETECTION CAMERAS, LED COUNTDOWN PEDESTRIAN SIGNALS, AND APS STATIONS AND PEDESTRIAN EDUCATION SIGNS. THE EXISTING POLE MOUNTED CABINET AND CONTROLLER ARE TO BE REPLACED WITH A NEMA SIZE 6 BASE-MOUNTED CABINET AND CONTROLLER.

MD 147 IS ASSUMED TO RUN IN AN NORTH-SOUTH DIRECTION.

II. INTERSECTION OPERATION:

THE INTERSECTION WILL OPERATE IN A FOUR-PHASE, FULL-ACTUATED MODE.

MD 147 APPROACHES SHALL OPERATE CONCURRENTLY. LINWOOD AVENUE APPROACHES SHALL OPERATE CONCURRENTLY.

TYPICAL MESSAGES FOR ACCESSIBLE PED SIGNALS

MD 147 HARFORD ROAD (SOUTH APPROACH) AND LINWOOD AVENUE

WAIT: "WAIT TO CROSS HARFORD AT LINWOOD." \*

WALK: RAPID TICK

\* MESSAGE USED IF DISTANCE FROM NEAREST PUSHBUTTON FOR PERPIDICULAR CROSSING IS < 10'  
\*\* MESSAGE USED IF CROSSWALK DIVERGES FROM OR CONVERGES WITH PARALLEL TRAFFIC

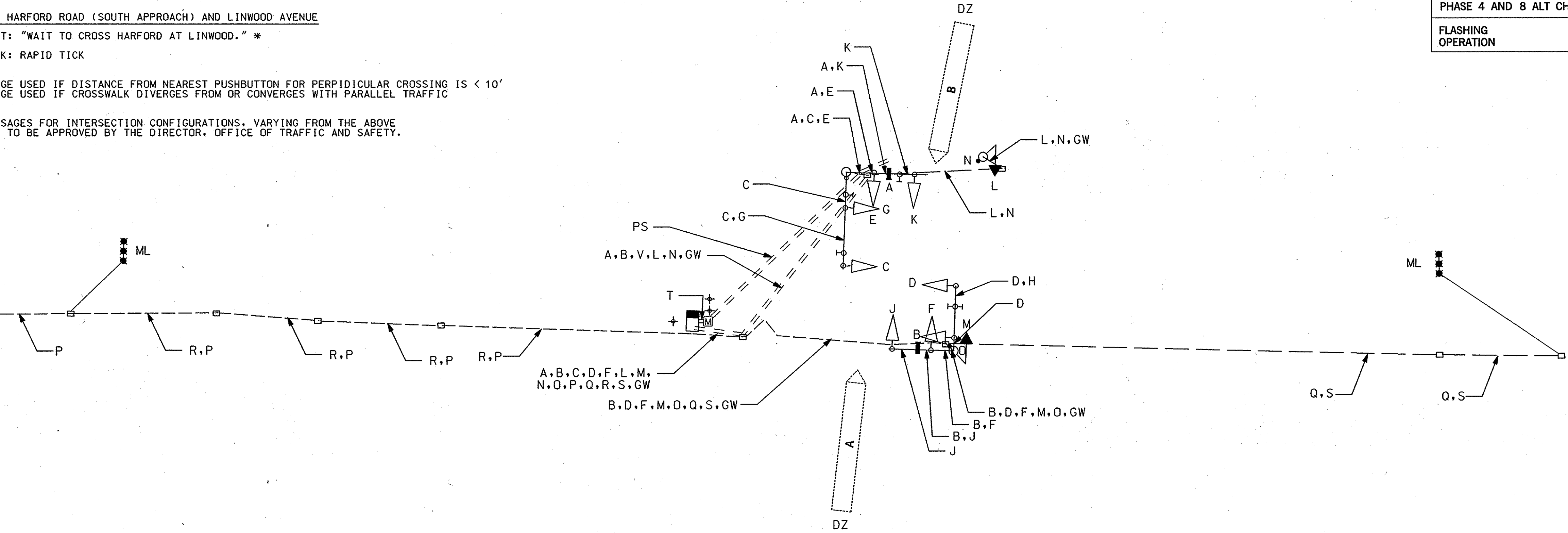
NOTE: MESSAGES FOR INTERSECTION CONFIGURATIONS, VARYING FROM THE ABOVE ARE TO BE APPROVED BY THE DIRECTOR, OFFICE OF TRAFFIC AND SAFETY.

PHASE CHART

1	2	3	4	5	6	7	8	9-10
(R)	(R)	(R)	(R)	(R)	(R)	(R)	(R)	(R)
(Y)	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)
(G)	(G)	(G)	(G)	(G)	(G)	(G)	(G)	(G)

PHASE 2 AND 6	G	G	G	G	R	R	R	R	DW	←
2 AND 6 CHANGE	Y	Y	Y	Y	R	R	R	R	DW	→
PHASE 4 AND 8	R	R	R	R	G	G	G	G	DW	↑
4 AND 8 CHANGE	R	R	R	R	Y	Y	Y	Y	DW	↓
PHASE 4 AND 8 ALT	R	R	R	R	G	G	G	G	WK	↕
PED CLEARANCE	R	R	R	R	G	G	G	G	FL/DW	↕
PHASE 4 AND 8 ALT CHANGE	R	R	R	R	Y	Y	Y	Y	DW	↕
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	DARK	↕

WIRING DIAGRAM



WIRING KEY

A } VIDEO DETECTION CABLE	P } 12-PAIR COMMUNICATION CABLE NO. 14 AWG (JELLY FILLED)
B }	Q }
C } 7 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)	R } MICROLOOP LEAD-IN
D }	S }
E }	T } (3-WIRES) 1 CONDUCTOR ELECTRICAL CABLE NO. 4 AWG
F }	PS UNDERGROUND POWER SOURCE
G } 5 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)	GW } 1 CONDUCTOR (NO. 6 AWG) STRANDED COPPER GROUND WIRE
H }	+ GROUND ROD
I }	DZ VIDEO CAMERA DETECTION ZONE
J }	
K }	
L }	
M }	
N } 2 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)	
O }	



STATE OF MARYLAND  
DEPARTMENT OF TRANSPORTATION  
STATE HIGHWAY ADMINISTRATION  
OFFICE OF TRAFFIC & SAFETY  
TRAFFIC ENGINEERING DESIGN DIVISION  
MD 147 HARFORD ROAD AND  
LINWOOD AVENUE

GENERAL INFORMATION SHEET

SCALE NONE DATE 12/12/2006 CONTRACT NO. BA6835184

DESIGNED BY AJM COUNTY BALTIMORE

DRAWN BY JBL LOGMILE

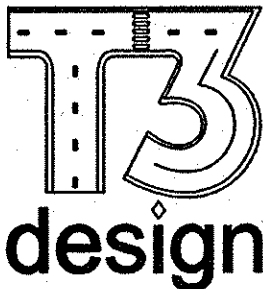
CHECKED BY PAT T.I.M.S. NO.

F.A.P. NO. TOD NO.

DRAWING NO. SG-2.4 OF 2.12 SHEET NO. 238 OF 239

ADDENDUM NUMBER 5  
12/12/06

PLOTTED: 08-06-2008  
FILE: n:\91556-160\cadd\13\_modification\pSG-P004\_M07.dgn



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